

HARS Human, His

Description: HARS Human Recombinant fused with a 23 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 532 amino acids (1-509 a.a.) and having a molecular mass of 59.4kDa. The HARS is purified by proprietary chromatographic techniques.

Catalog #: ENPS-008

For research use only.

Synonyms: Histidyl-tRNA synthetase cytoplasmic, Histidine-tRNA ligase, HisRS, HARS, HRS, FLJ20491.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMARAAL EELVKLQGER
VRGLKQQKAS AELIEEEVAK LLKLAQLGP DESKQKFVLK TPKGTRDYSR QMAVREKVF
DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL RYDLTVPFAR
YLAMNKLTNI KRYHIAKVYR RDNPMATRGR YREFYQCDFD IAGNFDPMIP DAECLKIMCE
ILSSLQIGDF LV

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The HARS solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.1M NaCl.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Histidyl-tRNA synthetase (HARS) functions to catalyze the aminoacylation of tRNAs by their corresponding amino acids. HARS is a member of the class II family of aminoacyl-tRNA synthetases. HARS is responsible for the synthesis of histidyl-transfer RNA, which is vital for the incorporation of histidine into proteins. HARS is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

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